now abandoned which is a continuation-in-part of U.S. Serial No. 07/206,470 filed 14 June 1988 and now abandoned which is a continuation-in-part of U.S. Serial No. 07/200,383 filed 31 May 1988 and now abandoned. Also related is U.S. Serial No. 07/460,855, now patent No. 5,114,923 which is a continuation-in-part of U.S. Serial No. 07/299,880 listed above.

Please amend the claims as follows:

Please cancel claims 1-31 and substitute the following claims:

Antibodies useful for immunoassays to detect a peptide which peptide comprises human or canine brain natriuretic peptide.

33. The antibodies of claim 32 wherein said peptide is human brain natriuretic peptide of the formula:

R¹-Cys-Phe-Gly-Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-Ser-Gly-Leu-Gly-Cys-R² wherein R¹ is selected from the group consisting of:

```
(H);
Gly-;
Ser-Gly-;
Ser-Gly-;
Gly-Ser-Gly-;
Gln-Gly-Ser-Gly-;
Val-Gln-Gly-Ser-Gly-;
Met-Val-Gln-Gly-Ser-Gly-;
Lys-Met-Val-Gln-Gly-Ser-Gly-;
Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-;
Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-; and
R³-Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-
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wherein R³ is the 101 amino acid sequence shown for human BNP in Figure 8 at positions numbered 1-99 immediately upstream of the Ser residue to which R³ is bound, or a C-terminal portion thereof; and

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R² is OH, NH₂ or NR₂ wherein each R is independently H or lower alkyl (1-4C); or R² is selected from the group consisting of:

Lys;

Lys-Val;

Lys-Val-Leu;

Lys-Val-Leu-Arg;

Lys-Val-Leu-Arg-Arg; and

Lys-Val-Leu-Arg-Arg-His, or

the C-terminal amides thereof.

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34. The antibodies of claim 33 wherein the peptide is of the formula:

Ser-Pro-Lys-Met-Val-Gin-Gly-Ser-Gly-Cys-Phe-Gly-Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-

Ser-Ser-Gly-Leu-Gly-Cys-Lys-Val-Deu-Arg-Arg-His,

or a C-terminal amide thereof.

35. The antibodies of claim 33 wherein, in said human brain natriuretic peptide, R³ is H and R² is OH or NH₂.

36. The antibodies of claim 33 wherein, in said human brain natriuretic peptide, R^1 is H and R^2 is OH or NH₂.

the formula:

37. The antibodies of claim 32 wherein said peptide is canine natriuretic peptide of mula:

R¹-Cys-Phe-Gly-Arg-Arg-Leu-Asp-Arg-Ile-Gly-Ser-Leu-Ser-Gly-Leu-Gly-Cys-R² wherein R¹ is selected from the group consisting of:

(H);

Gly-;

Ser-Gly-;

Lys-Ser-Gly-;

His-Lys-Ser-Gly-;

Met-His-Lys-Ser-Gly-;

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Met-Met-His-Lys-Ser-Gly-;

Lys-Met-Met-His-Lys-Ser-Gly-;

Pro-Lys-Met-Met-His-Lys-Ser-Gly-; and

R³-Ser-Pro-Lys-Met-Met-His-Lys-Ser-Gly-;

wherein R³ is the 100 amino acid sequence of the dog prepro sequence upstream of the Ser residue to which R³ is bound shown in Figure 8 herein or a C-terminal portion thereof;

R² is OH, NH₂, or NR₂ wherein each R is independently H or lower alkyl (1-4C) or R² is

Asn;

Asn-Val;

Asn-Val-Leu;

Asn-Val-Leu-Arg;

Asn-Val-Leu-Arg-Lys; or

Asn-Val-Leu-Arg-Lys-Tyr;

or a C-terminal amide thereof.

2/8. The antibodies of claim 37 wherein said canine natriuretic peptide is

Ser-Pro-Lys-Met-Met-His-Lys-Ser-Gly-Cys-Phe-Gly-Arg-Arg-Leu-Asp-Arg-Ile-Gly-

Ser-Leu-Ser-Gly-Leu-Gly-Cys-Ser-Pro-Lys-Met-Met-His-Lys-Ser-Gly-Asn-Val-Leu-

Arg-Lys-Tyr;

or a C-terminal amide thereof.

39. The antibodies of claim 37 wherein the said canine natriuretic peptide R³ is H and R² is OH or NH₂.

40. The antibodies of claim 37 wherein the said canine natriuretic peptide R^1 is H and R^2 is OH or NH_2 .

- 41. The antibodies of claim 32 which are monoclonal antibodies.
- 42. The antibodies of claim 32 which further comprise a label.

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